



FIGURE 2A

Comparison of AMP Deaminase Polypeptides From Corn, Rice, Soybean, and Wheat (SEQ ID NOS:14, 16, 18, and 20) and *Arabidopsis thaliana*

Title: Purine Metabolism Genes in Plants
Applicant: Caspar et al.
Application No.: 10/019633
Atty: L. Christenbury 302-992-5481
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FIGURE 2B

SEQ ID NO: 14 SEQ ID NO: 16 SEQ ID NO: 18 SEQ ID NO: 20 gi 7484807	ERRPTKHMPTPEQWTNVFNPAFSYYAYCYANLFTLNKLRESKGMTTIKFRPHAGEAGDV DHLAAATFLLCNISHGINLRKSPVQYLYY ERRPTKHMPTPEQWTNVFNPAVAYYYCYANLYTLNKLRESKGMTTIKLRPHCAGDIDHLAAFLTSNIAHGVNLLKKSPVQYLYY ERRPTKHMPTPEQWTNVFNPAFSYYYCYANLYTLNKLRESKGMTTIKFRPHSAGDIDHLAAFTFLTAHNIAHGINLKSPVQYLYY ERRPTKHMPTPEQWTNVFNPAFSYYAYCYANLYTLNKLRESKGMTTIKFRPHAGEAGDV DHLAAATFLLCHSISSHGINLRKSPVQYLYY ERRPTKHMPTPAQWTNAFNPAFSYYYCYANLYVLNKLRESKGMTTIITLRPHSAGDIDHLAAATFLTCHSISSHGINLRKSPVQYLYY	-----
SEQ ID NO: 14 SEQ ID NO: 16 SEQ ID NO: 18 SEQ ID NO: 20 gi 7484807	LGQIGLAMSPSNNSLFLDYHRNPFPFFQRLNVSLSTDDPLQIHLTKEPLVVEEYSIAASLWKLSSCDLCEIARN SVYQSGFSHALKAH LAQIGLAMSPSNNSLFLDYHRNPFPFFQRLNVSLSTDDPLQIHLTKEPLVVEEYSIAASLWKLSSCDLCEIARN SVYQSGFSHLKSH LAQIGLAMSPSNNSLFLDYHRNPFPFFQRLNVSLSTDDPLQIHLTKEPLVVEEYSIAASLWKLSSCDLCEIARN SVYQSGFSHALKAH LAQIGLAMSPSNNSLFLDYHRNPFPFFQRLNVSLSTDDPLQIHLTKEPLVVEEYSIAASVWKLSSACDLCEIARN SVYQSGFSHALKSH -----	-----
SEQ ID NO: 14 SEQ ID NO: 16 SEQ ID NO: 18 SEQ ID NO: 20 gi 7484807	WIGKQYFKRGPGANDIHRNTVPHIRVQFREMIWRNEMKLYYSDNELIPDELDL WIGRNYYKRGHDGNDIHQTMVPHIRIEFRHTIWKEEMELIHLRN-VDIPEEIDR WIGKQYKRGPGNDIHRNTVPTIRIEFRDLIWRDEMQLVYNNVIL-PDEV DQ WIGKQYKRGPGNDIHRNTVPHIRVEFRDTVWNE----IYL----FFTQVNFSL -----	-----



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FIGURE 3A

Comparison of Adenosine Deaminase Polypeptides From Soybean (SEQ ID NO:22) and *E. coli*

SEQ ID NO:22 gi 2506342	MCGENMKQFLKELPKCEHHIHIEGSLSPALLFELAKTNNAIPDSAADASFKSPQELESRYERTSLLNDFLHYYYYIGMSVLINPADYESLMIDT-----TLPPLTDIHRHLDGNIRPQTILELGROYNISLPAQSLETIPLPHQVIANE---PDLVSPFLTKLDWGVKVLASLDACRRV
SEQ ID NO:22 gi 2506342	AYEYLTKANRDGVHHAELIFDPQ-AHTERGTAYNTVEGLSAGLKRRAEKDFGITSKLLCFLRHLSAEDAKTYYQEAVSLGHFSNGTVAAAFENIEDAARHGLHYVELRFPSPGYMAMAHQLPVAGVVVEAVIDGVREGCRTFGVQAKLIGIMSRTFGEAACQQLEA--FLAH--RDQITA
SEQ ID NO:22 gi 2506342	IGLDSSSEVGFPPEIFPREIYESAETKGIIHRTAHAGEEGDTSYISRALDICKVERIDHGIIRLAEDENLLKRVAAEQGTMILTVCPPLSNVRARCVLDLAGDELGFPGSLFLSHFNRRDAGMHTVHAGEAAGPESIWQAIRELGAERIGHGVKAIEDRALMDFLAEQQIGIESCLTSNIQTSTV
SEQ ID NO:22 gi 2506342	ENVGQPLPIRKFLDGGIKFSINSDDPAYFFGYILDNYLAVQEAFLNLKEWKYIATSAIEGSWCDDERKAVLLSKVDACAKKYEALLAELAAHPLKTFLEHGIRASINTDDPGVQGVDIIEEEYTVAAPAAGLSREQIRQAQINGLEMAFLSSEEKRALREKVA-----K